# Inconel Alloy 600 Foil:

## Features, Applications and Supply Excellence

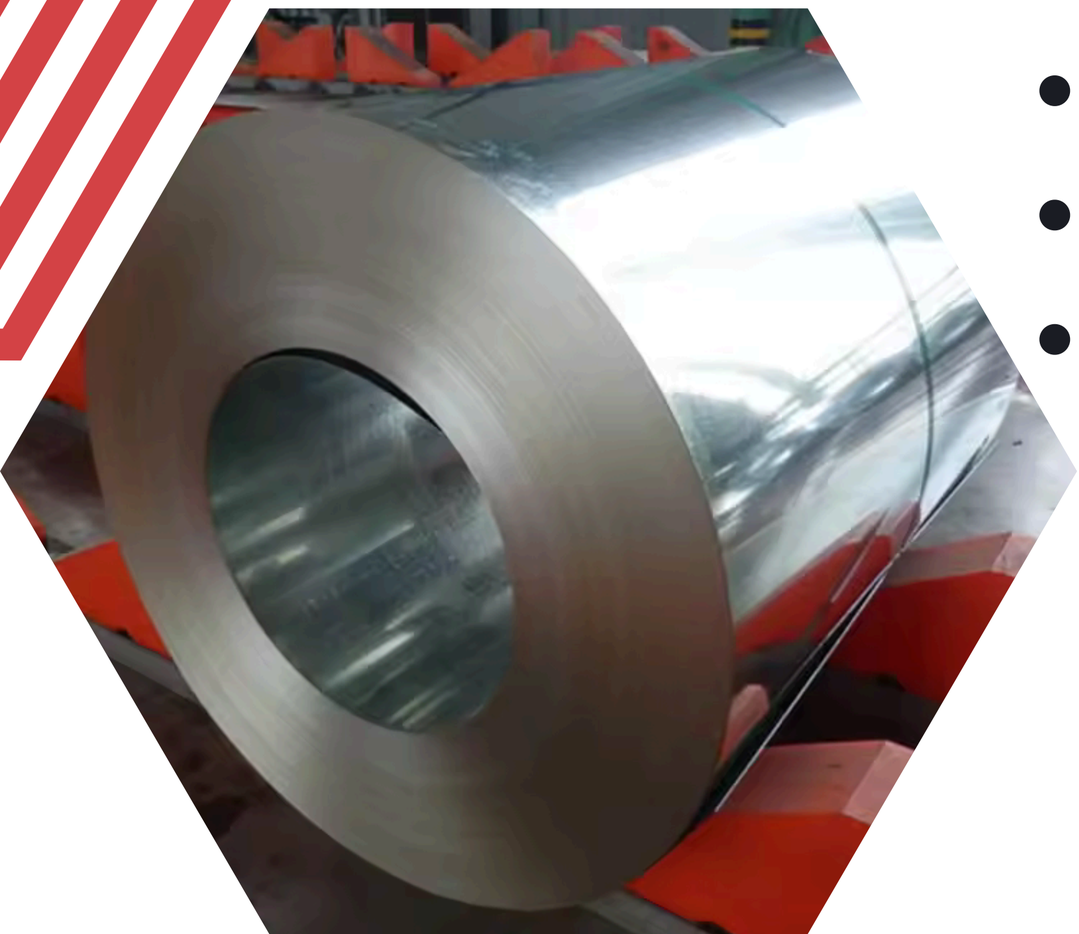
PEARL OVERSEAS

An ISO 9001:2008 Certified Company

# What is Inconel Alloy 600 Foil?

- Inconel Alloy 600 is a nickel-chromium alloy designed for high-temperature and corrosive environments.
- In foil form, it is manufactured in very thin gauges for precision industrial use.
- It is widely preferred for applications requiring strength, oxidation resistance, and long-term reliability.
- Inconel 600 Foil is available in both hot rolled and cold rolled forms.

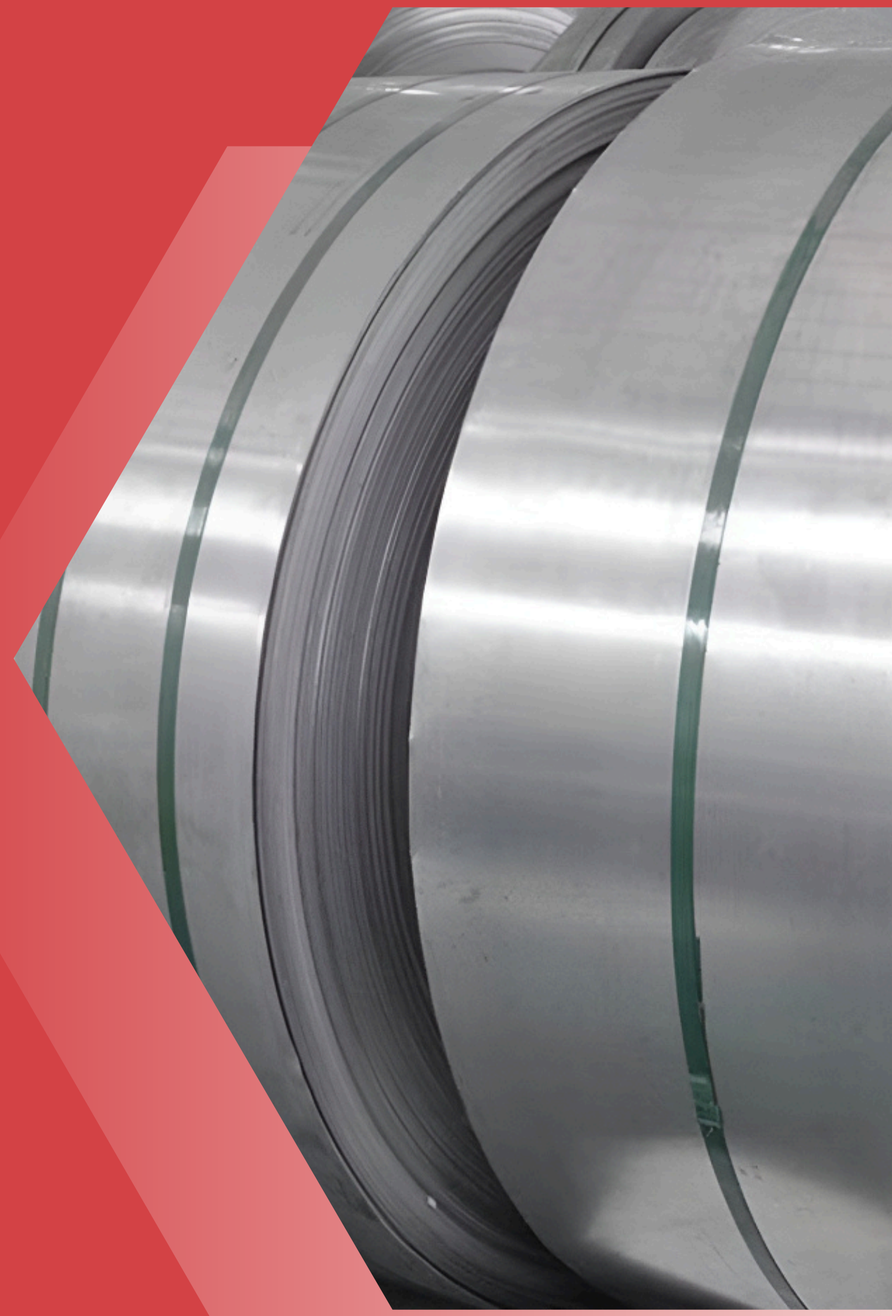
# Composition of Inconel Alloy 600



- Nickel (Ni): Approximately 72%
- Chromium (Cr): 14–17%
- Iron (Fe): 6–10%
- Small quantities of manganese, silicon, and carbon

# Major Features and Benefits

- Excellent resistance to oxidation and scaling
- High strength at elevated temperatures
- Superior resistance to chloride stress corrosion cracking
- Good weldability and formability
- Maintains structural stability in extreme conditions
- Long-lasting performance with minimal maintenance



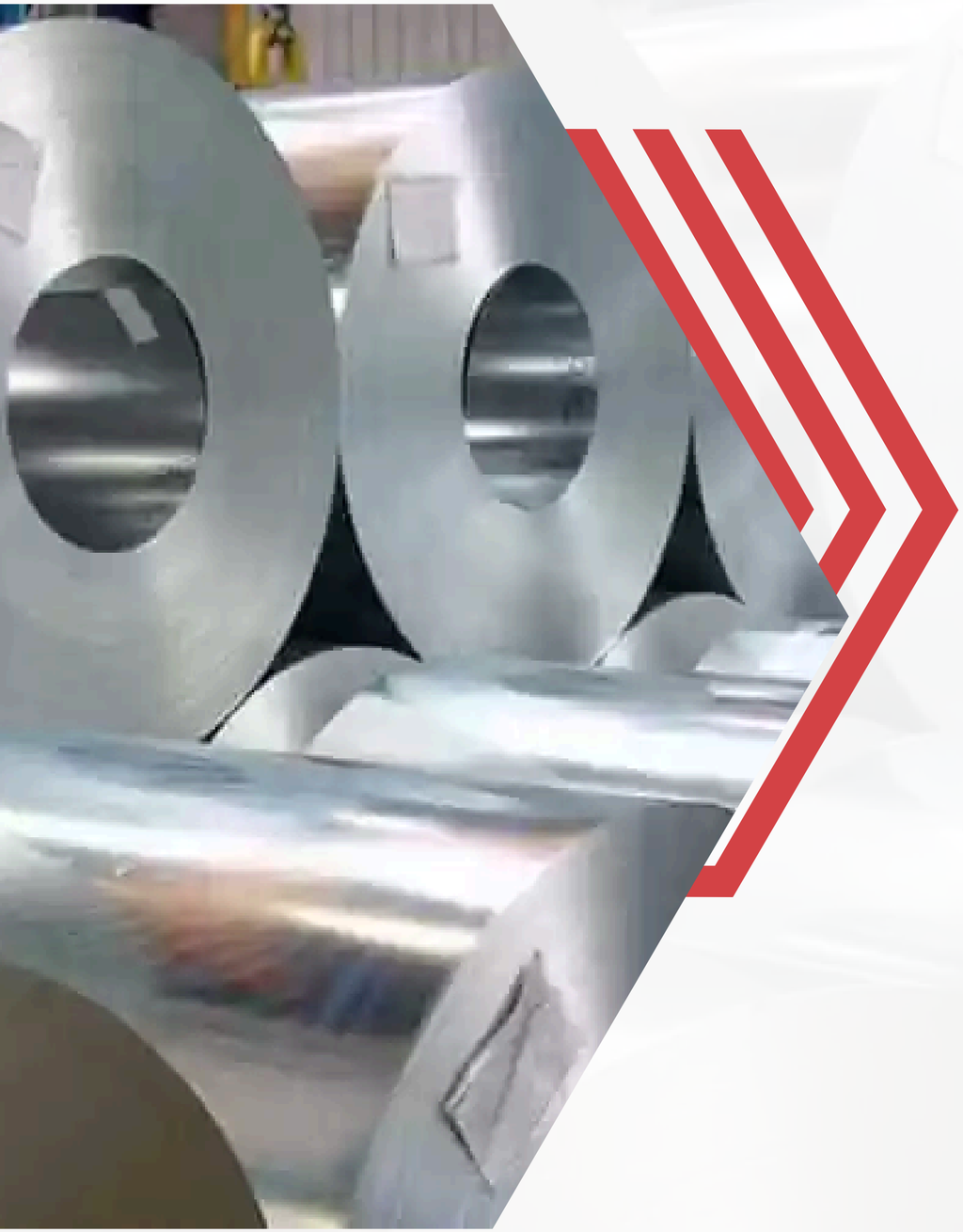
# Product Specifications and Standards

## Common Product Forms

- ASTM B168 Inconel 600 Foil
- ASME SB168 Inconel 600 Foil
- Available in different thicknesses, widths, and lengths
- Custom dimensions available as per project requirements
- Supplied in coils, rolls, or cut sheets

## Available Specifications

- Hot Rolled Foil
- Cold Rolled Foil
- Precision-Cut Foil Sheets
- Foil Rolls
- Foil Strips
- Ultra-Thin Foil Sheets
- Custom Slit Coils
- Annealed Foil
- Bright Finished Foil



# Industries and End Uses

- Aerospace and Aviation Industry
- Chemical Processing Plants
- Heat Treatment and Furnace Equipment
- Marine and Offshore Applications
- Nuclear Power Plants
- Electronics and Precision Components

## Typical Applications:

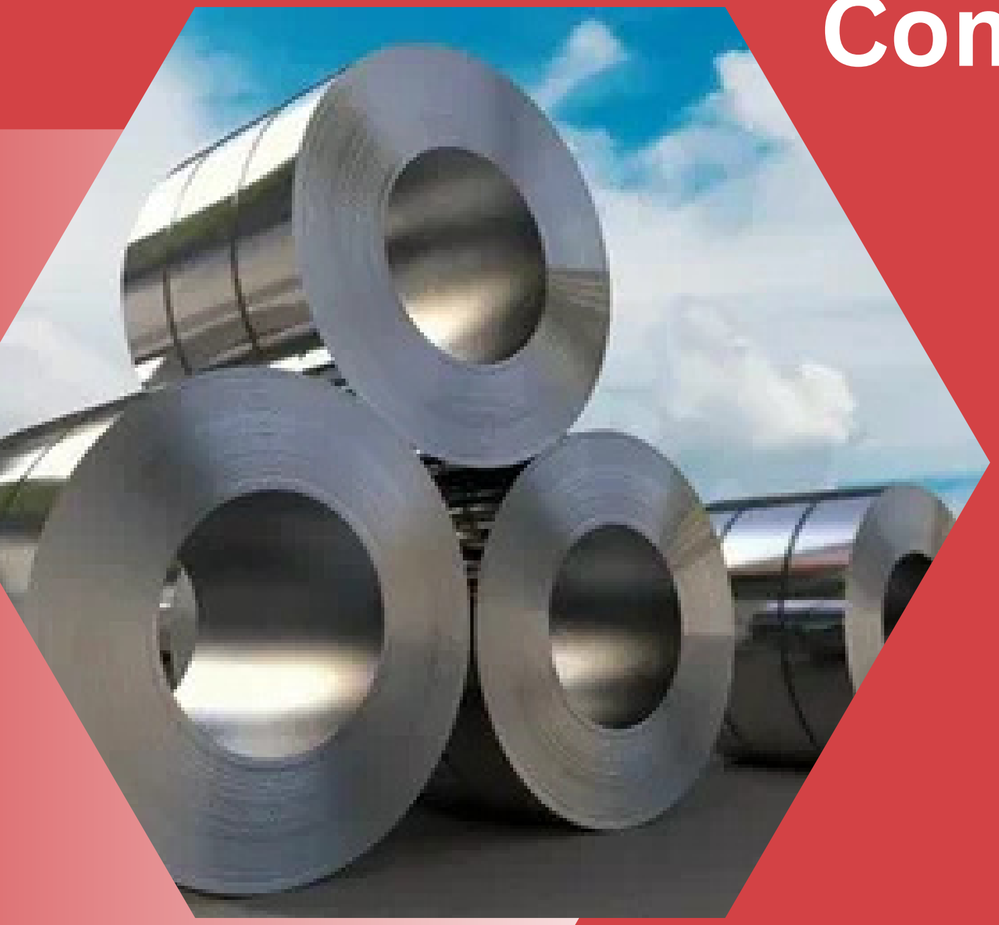
- Heat Shields
- Industrial Gaskets
- Thermal Insulation
- Chemical Processing Liners
- Electrical and Electronic Components

# Advantages Over Standard Stainless Steel Foils

- Better high-temperature resistance than stainless steel
- Greater corrosion resistance in acidic and chloride environments
- Longer service life under continuous heat exposure
- Better mechanical properties in aggressive conditions

**Comparison:**

Inconel 600 Foil performs better where stainless steel may fail due to oxidation or corrosion.

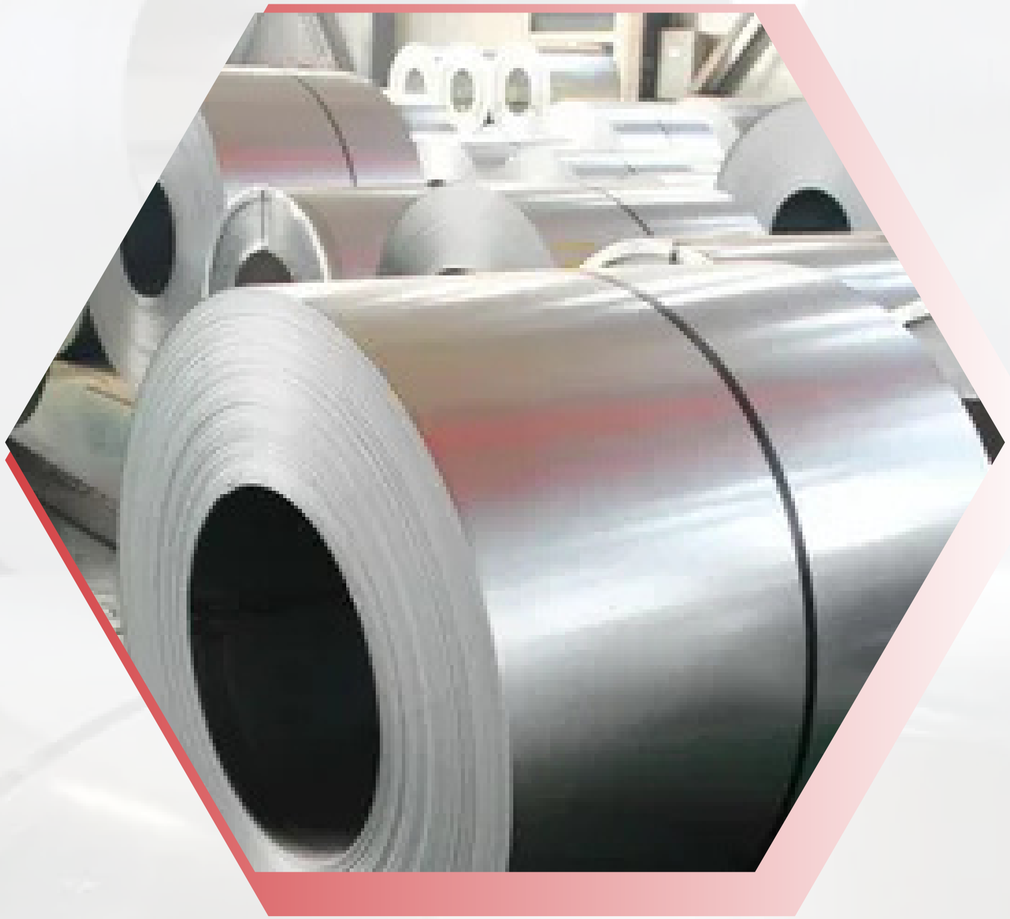


# Commitment to Product Quality

- Strict inspection at every stage of manufacturing
- Dimensional accuracy and surface finish checks
- Corrosion and temperature resistance testing
- Products verified before shipment

## Testing Includes:

- Thickness Measurement
- Mechanical Testing
- Surface Finish Inspection
- Corrosion Resistance Test
- Final Quality Approval



# Final Summary

- Inconel Alloy 600 Foil is a high-performance material for heat and corrosion-resistant applications.
- It offers excellent strength, durability, and long-term reliability.
- Pearl Shims provides ASTM B168 and ASME SB168 Inconel 600 Foil with ready stock and custom solutions.
- With quality manufacturing and global supply capability, Pearl Shims continues to be a trusted industry leader.

# Thank You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